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Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 2: Ratio and Proportional Reasoning

Pre-Assessment

**6.RP.1**

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In a sports equipment locker, there are 81 balls and 45 baseball mitts. How is the ratio of balls to baseball mitts expressed in simplest form?

A 9:5

B 10:18

C 10:5

D 9:18

Ray took a survey about how people in his class got to school. 18 students walked and 6 students took the yellow bus. Which statement correctly explains the ratio of walking students to bus students and is expressed in simplest form?

A For every 18 students that walk, there are 6 students that take the bus.

B For every 6 students that take the bus, there are 18 students that walk.

C For every 3 students that walk, there is 1 student that takes the bus.

D For every 1 student that takes the bus, there are 3 students that walk.

Kevin is making cookies for his wife. He needs to use 4 cups of flour and 2 cups of sugar for the recipe. Which statement correctly explains the ratio of flour to sugar if Kevin only makes half the recipe?

A For every 2 cups of sugar, there is 1 cup of flour.

B For every 1 cup of sugar, there are 2 cups of flour.

C For every 1 cup of flour, there are 2 cups of sugar.

D For every 2 cups of flour, there is 1 cup of sugar.

**6.RP.2**

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Kathryn paid $75 for 15 hamburgers. How much did she spend for 1 hamburger?

A $70

B $3

C $5

D $50

Jack can ride his bike 20 miles in 4 hours. How many miles does he ride in 1 hour?

A 16 miles

B 5 miles

C 24 miles

D 2 miles

I’m having a party. The rate of tacos to people is 48 to 6. What would that be expressed as a unit rate?

A 8:1

B 6:48

C 1:8

D 48:6

**6.RP.3b**

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If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours?

A 57

B 175

C 28

D 20

Jess can drive 360 km in 6 hours. At this rate, how far does she travel in one hour?

A 60 km

B 120 km

C 62 km

D 61 km

Maria bought 8 cans of soda for $5.20. How much did 1 can cost?

A $ 0.55

B $ 0.60

C $ 0.65

D $ 0.70

**6.RP.3a**

=====================================================================

There are 5 players per team. Use the table below to answer each of the following questions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Players | 5 | 10 | **A** | 25 |
| Team | 1 | 2 | 3 | **B** |

How many players will be in box “A” in the table above?

A 6

B 5

C 15

D 20

How many teams should there be for box “B”?

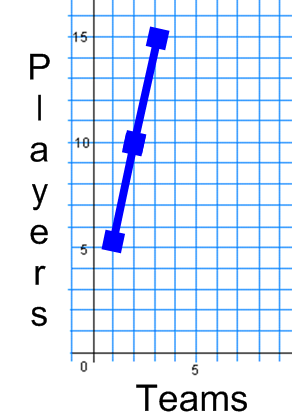
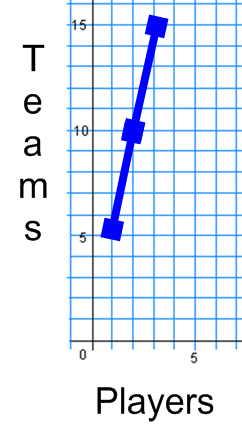
A 4

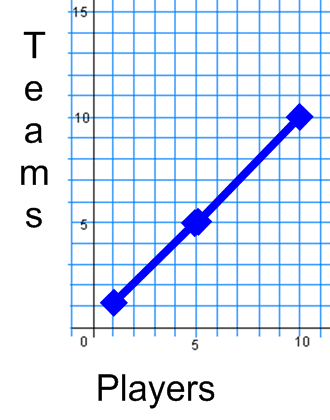
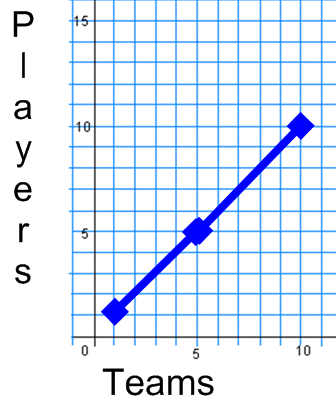
B 6

C 20

D 5

Which figure shows the data plotted correctly?

A B

C D

**6.RP.3c**

=====================================================================

What percent is 12 out of 25?

A 20%

B 13%

C 48%

D 37%

What is 40% of 30?

A 120

B 70

C 10

D 12

30% of the students in Ms. Byrne’s class like chocolate ice cream. How many students are in Ms. Byrne’s class if 6 students like ice cream?

A 20

B 36

C 5

D 24

**6.RP.3d**

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There are 12 inches in 1 foot. How many inches are in 4 feet?

A 3

B 48

C 8

D 144

There are 4 quarts in a gallon. How many quarts are in 20 gallons?

A 80

B 24

C 16

D 5

There are 2 cups in a pint. There are 2 pints in a quart. How many cups are in 7 quarts?

A 28

B 4

C 14

D 3